

# United States Patent and Trademark Office

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APPLICATION NO. FILING DATE		ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/935,002 08/21/2001		3/21/2001	Tae-Pok Rhee	5484-92	9272	
20575	7590	12/23/2002				
= :		& MCCOLLO	EXAMINER TSAI, H JEY			
1030 SW MO PORTLAND						
				ART UNIT	PAPER NUMBER	
			2812			
				DATE MAILED: 12/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.										
## Examiner   H. Jey Tsai   2812    ## The MAILING DATE of this communication appears on the cover sheet with the correspondenc address  ## Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  • Extensions of lines may be available under the provisional 37 CPR 1.158(b). In so event, however, may a reply to timely filed    • If the period for engly specified dose, the maximum stanting provisional and 37 CPR 1.158(b). In so event, however, may a reply to timely filed    • If the period for engly specified dose, the maximum stanting provisional and the communication of the period to regify a specified dose, the maximum stanting date of this communication of the period to regify a specified dose, the maximum stanting date of this communication of the period of the communication.  • Any upity revision by the Total set than them are filed glabs of this communication, even if threely filed, may reduce any searched plant term adjustment. See 37 CPR 1.704(c).  **Status**    1)	*		Application	on No.	Applicant(s)					
H. Jey Tsai   2812	٠,		09/935,00	2	RHEE					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  E-tensions of ten many be evaluate under the procession of 3 CFR 1.75(€). In or event, however, may a reply be timely filled.  E-tensions of ten many be evaluated under the procession of 3 CFR 1.75(€). In or event, however, may a reply be timely filled.  If the period for reply specified above is use than thirty (20) days, a reply veitin the stidutory minimum of binky (20) days will be considered timely.  If NO pasoff for reply is pecified above is the sent intention price will apply and will easy 50% (50 MONTHS from brailing date of this communication.  Fallow to reply veitin be ender definitely priced will expend you and will easy 50% (50 MONTHS from brailing date of this communication.  Fallow to reply veitin be ender definitely priced will apply and will easy 50% (50 MONTHS from brailing date of this communication.  Fallow to reply veitin be ender definitely priced will apply and will depay 50% (50 MONTHS from brailing date of this communication.  Fallow to reply veitin be ender definitely priced will apply and will depay 50% (50 MONTHS from brailing date).  Fallow to reply veitin be ender definitely priced will apply and will depay 50% (50 MONTHS from brailing date).  Fallow to reply veitin be ender definitely priced will be accommended to the communication.  Fallow to reply veitin be ender definitely priced will be accommended to the communication.  Fallow to reply and the process of the communication of the communication of the communication of the communication.  Fallow to reply and the accommended to the communication of the communication of the communication.  Fallow to reply the second of the communication of the communicat	:	Office Action Summary	Examiner		Art Unit					
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THE MAILING DATE OF THIS COMMUNICATION.  Estancians of time may be seriable under the provisions of 30°CR 1136(s). In no event, however, may a reply be timely field after 5X (6) MONTHS from the mailing date of this communication.  If the period to may be seriable under the provision of 30°CR 1136(s). In no event, however, may a reply be timely field after 5X (6) MONTHS from the mailing date of this communication.  If the period to may be seriable under the serial content of the s		• •								
2a)  This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parle Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-49 is/are pending in the application.  4a) Of the above claim(s) 17-24 and 41-48 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) Claim(s) is/are objected to.  8) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: allowed.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: all approved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some of the priority documents have been received.  2 Certified copies of the priority documents have been received in Application No. 08/974.371.  3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.	THE I - Exter after - If the - If NO - Failu - Any r earne	MAILING DATE OF THIS COMMUNICAT sions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by eply received by the Office later than three months after the	TON. CFR 1.136(a). In no eve tion. s, a reply within the statu period will apply and will y statute, cause the appli	nt, however, may a reply be tory minimum of thirty (30) d I expire SIX (6) MONTHS fro cation to become ABANDON	timely filed lays will be considered timely. om the mailing date of this communic NED (35 U.S.C. § 133).	cation.				
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Priority under 35 U.S.C. §§ 119 and 120  13)		If approved, corrected drawings are required	d in reply to this Off	īce action.						
13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No. 08/974,371.  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1)  Notice of References Cited (PTO-892)  2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 . 6)  Other:	12) 🗌 .	The oath or declaration is objected to by t	he Examiner.							
a) ☑ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☑ Certified copies of the priority documents have been received in Application No. <u>08/974,371</u> .  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Interview Summary (PTO-413) Paper No(s) 9.  5) ☐ Notice of Informal Patent Application (PTO-152)  6) ☐ Other:	Priority u	ınder 35 U.S.C. §§ 119 and 120								
1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No. 08/974,371.  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Interview Summary (PTO-413) Paper No(s) ②  5) ☐ Notice of Informal Patent Application (PTO-152)  3) ☐ Other:	13)⊠	Acknowledgment is made of a claim for f	oreign priority un	der 35 U.S.C. § 119	(a)-(d) or (f).					
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	2) Notic	e of Draftsperson's Patent Drawing Review (PTO-94		5) Notice of Informa						
			ffice Action Summar	у	Part of Paper	No. 11				

# Application No. Applicant(s) RHEE 09/935,002 Interview Summary Examiner Art Unit 2812 H. Jey Tsai All participants (applicant, applicant's representative, PTO personnel): (1) *H. Jey Tsai*. (2) J. makuch. attorney for applicant. Date of Interview: 30 September 2002. Type: a) ✓ Telephonic b) ✓ Video Conference c) Personal [copy given to: 1) applicant 2) applicant's representative] Exhibit shown or demonstration conducted: d) Yes e)⊠ No. If Yes, brief description: \_\_\_\_\_. Claim(s) discussed: 49. Identification of prior art discussed: \_\_\_\_\_. Agreement with respect to the claims f) was reached. g) was not reached. g) was not reached. gSubstance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet . (A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.) i) It is not necessary for applicant to provide a separate record of the substance of the interview (if box is checked). Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required



### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

## Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by
  attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does
  not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case unless both applicant and examiner agree that the examiner will record same. Where the examiner agrees to record the substance of the interview, or when it is adequately recorded on the Form or in an attachment to the Form, the examiner should check the appropriate box at the bottom of the Form which informs the applicant that the submission of a separate record of the substance of the interview as a supplement to the Form is not required.

It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner.
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
  - (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### **Examiner to Check for Accuracy**

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation Sheet (PTO-413)

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicants called examiner and contends that claim 49 is a generic claim to both speies. However, Examiner disagreed with Applicant because claim 49 containing mutually exclusive species of cylindrical insulator or a magnectic core formed above the lower conductive lines. And, applicant threatened Examiner to go to examiner's supervisor for this matter. Examiner informed applicant that threatening to go to examiner's supervisor would not make the non-responsive response to go away, filing a petition or response in writing is a better way to prosecute the application.

### Election/Restrictions

Applicant's election of claims 1-16, 25-40 and 49 in Paper No. 7 and 10 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

# Interview Must Be Made of Record

Applicant is reminded that the substance of Interview Must Be Made of Record during the interview with examiner on Sept. 30, 2002 and the supervisor of the examiner, John Niebling on Oct. 1, 2002. A complete written statement as to the substance of any face-to-face, video conference, electronic mail or telephone interview with regard to the merits of an application must be made of record in the application, whether or not an agreement with the examiner was reached at the interview. See 37 CFR 1.133(b), MPEP § 502.03 and § 713.01 and 713.04.

The action of the U.S. Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete or accurate, the examiner may give the applicant

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a 1-month time period to complete the reply under 37 CFR 1.135(c) where the record of the substance of the interview is in a reply to a nonfinal Office action.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-16, 25-40 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundaram et al. 5,372,967 in view of Yamada et al. 6,236,538.

The reference(s) teach the features:

Sundaram et al. substantially discloses a method of forming an inductor on the semiconductor device, which includes :

forming a groove with a spiral shape or other shapes in the insulating layer 11, fig. 4+,

forming a conductive layer 18 on the groove,

forming cylindrical insulator 19, col. 3, lines 18+,

forming upper conductive lines 23 contacting the underlying conductive layer 18 to form an inductor, figures 5 and 6.

Yamada et al. teaches forming an inductor in the semicircle grooves in figures 35 and 36 in the insulaiting layer 1a, 1b, or 41(since substrate 1 is semicircle, hence, layer 41 inherently a

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semicircle), a conductive layer 21 and an inductor core 31 and upper conductive line 22 to form an inductor, see col. 25, lines 15+ and figures 1+.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have recognized that Sundaram et al's spiral shape groove is a semicircle groove in the insulating layer as suggested by Yamada et al.

Any inquiry of a general nature or clerical matters or relating to the status of this application or proceeding should be directed to the Group customer service whose telephone number is (703) 306-3329 and Fax number (703) 308-7722. Group receptionist telephone number 703-308-0956.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. Jey Tsai whose telephone number is (703) 308-1374. The examiner can normally be reached on from 7:00 Am to 4:00 Pm., Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone number for this Group is (703) 305-3431.

hjt

12/17/02

H. Jey Tsai

Primary Examiner
Patent Examining Group 2800